Air Training Systems

Virtual Training

Rotary and Fixed Wing Solutions

Key Features

- Smart entities - combines all aircraft systems in a sophisticated virtual arena
- Avionics simulator core - integrates actual or simulated aircraft avionics components
- Accurate aerodynamic flight models - based on FAA/JAA guidelines
- Modular design

Major advantages

- Advanced training - suitable for pilots of all levels, the systems can simulate all types of exercises, missions and operational scenarios, eliminating the need for costly flying hours by the air force
- Total combat readiness - pilots are trained in normal and emergency operation modes using realistic environmental cues and virtual threats
- Value for money - maximizes the use of COTS hardware and software
- Turnkey solution - vast experience in delivering turnkey solutions with various financing options, including a private financing initiative program

Mi-17 Glass Cockpit

Elbit Systems Ltd.
Advanced Technology Center, P.O.B. 539, Haifa 31053, Israel
E-mail: aerospace@elbitsystems.com www.elbitsystems.com

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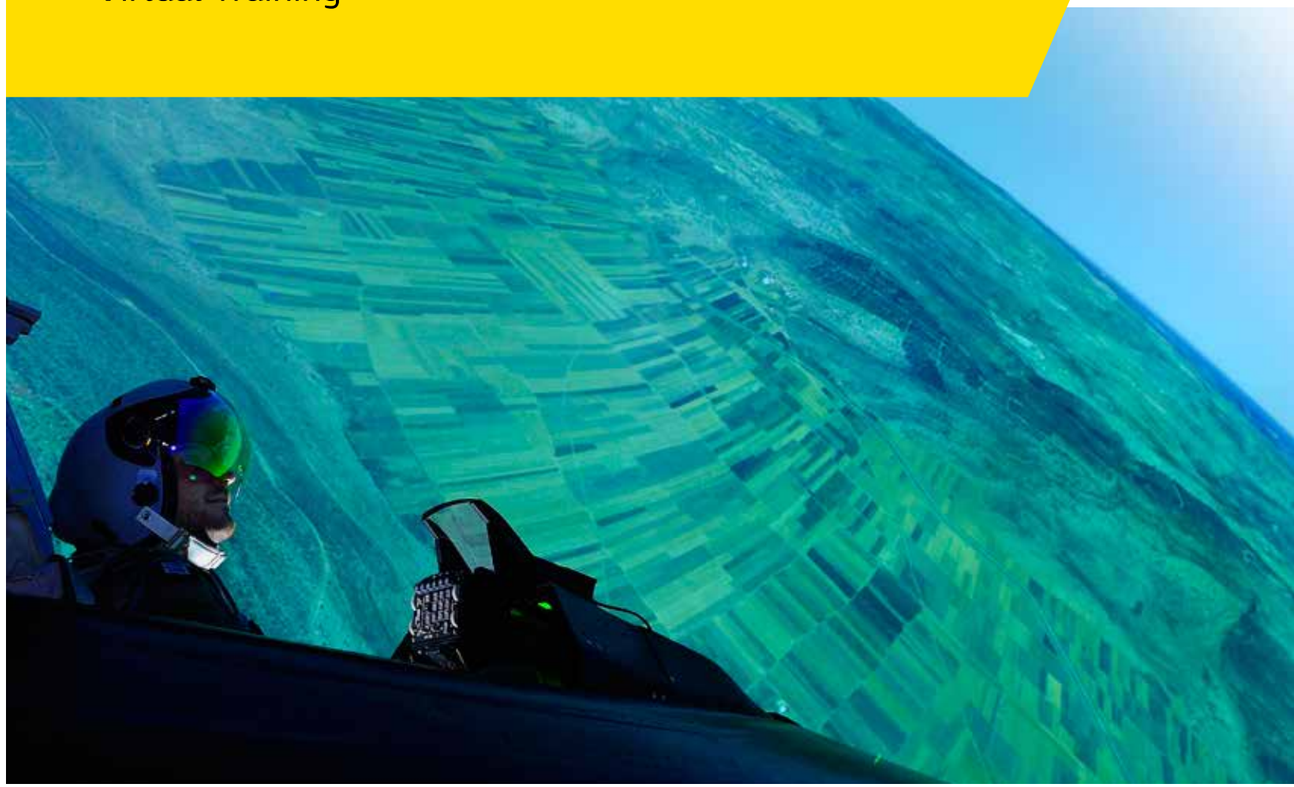

Next-generation mission readiness simulator systems

Elbit Systems' offers a full range of next-generation high-fidelity simulators for rotary and fixed-wing aircraft. Built on the accumulated experience of in-service and retired Israel Air Force pilots, Elbit Systems' complete range of training products include computer-based trainers (CBT), flight training devices (FTD) and full flight simulators (FFS). Theses high-end commercial of the shelf (COTS) based systems provide pilots and cadets with a customized and comprehensive simulation for all of their training needs.

Elbit Systems' solutions are designed to train pilots on all basic and advanced procedures beginning with start-up, taxi and takeoff and continuing with emergency procedures, instrument flight rules and stand-alone tactical training. An established track record in delivering training and simulation solutions, combined with a comprehensive range of customizable systems, allows Elbit Systems to deliver cost-effective solutions tailored to their customers' needs.

Rotary wing solutions

- High-end flight model based on the blade element model for the tail and main rotor incorporating data collection, flight books or OEM data
- Unique design for the FFS roll-on/roll-off concept based on ball transfer units
- Rear crew full-package simulation including Sonar, RADAR, EOP and advanced EW simulation
- Smart entities adapted to helicopters "train as you fight" concept for realistic environmental situations
- All designs are based on FAA/JAA criteria

Rotary wing simulators delivered

Mi-8/17

Mi-24

Puma

Super Puma

Fixed wing solutions

- Glass cockpit technology with highest similarity to actual aircraft provides ease of maintenance and seamless upgrades
- Avionic simulation core - unique development which enables single connection to all avionics, real or simulated, based on COTS technology
- TARGO™ - exclusive helmed-mounted display for simulation use
- Roll-in/roll-out design for adaptation to high resolution, large field of view display systems and simple upkeep
- Advanced arena generator for realistic simulation based on the extensive experience of in-service and retired pilots

Fixed wing simulators delivered

AM-339

F-16 Block 15,
MLU, 30/40, 52

M-2000

F-5

Super Tucano/ALX

Tucano

King Air B200

IAR-99

MiG-21

F-4